



### KEYED NOTES:

- 1 INSTALL BALANCING VALVE WITH MINIMUM OF 3 STRAIGHT PIPE DIAMETERS UPSTREAM AND 1 STRAIGHT PIPE DIAMETER DOWNSTREAM.
- 2 MAINTAIN 6" MINIMUM CLEARANCE ABOVE TEST PLUG TO ALLOW GAUGE TO BE INSERTED. DO NOT COVER PLUG WITH INSULATION.
- 3 INSTALL SWING JOINTS AT COIL CONNECTIONS.
- 4 CONNECT BRANCH LINES FROM COIL INTO TOP OR SIDE OF SUPPLY AND RETURN MAINS. CONNECTING INTO BOTTOM OF MAIN IS NOT ACCEPTABLE.
- 5 INSTALL MANUAL AIR VENTS IN SUPPLY AND RETURN COIL BRANCH PIPING AS FOLLOWS:  
 A) IN PIPING HIGH POINT WHEN PIPING IS ABOVE MAIN.  
 B) CLOSE TO COIL WHEN PIPING IS NOT ABOVE MAIN (SIDE CONNECTION).
- 6 INSTALL COIL SO AIR PASSES THROUGH FINS IN PROPER DIRECTION NOTED ON COIL.

## HOT WATER COIL PIPING DETAIL

(ON/OFF FLOW THROUGH COIL, FAIL TO FULL HEAT)

SCALE: NONE

### NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. SEE SHEET 9 FOR PNEUMATIC CONTROL DIAGRAM.
2. SEE SHEET 10 FOR STACKED COIL PIPING.
3. SEE SHEET 11 FOR DESIGN NOTES.
4. APPLICATION: OUTSIDE AIR PREHEAT COIL (MODULATING FACE & BYPASS).

DRAWING DEVELOPED FOR ML-3/  
 ML-4 PROJECTS. FOR ML-1/  
 ML-2, ADDITIONAL REQUIREMENTS  
 AND QA REVIEWS ARE REQUIRED.  
 (REMOVE THIS NOTE WHEN IN-  
 SERTED INTO A DRAWING PACK-  
 AGE).

| NO | DATE    | CLASS<br>REV | DESCRIPTION   | DWN | DSGN | CHKD | SUB | APP |
|----|---------|--------------|---|-----|------|------|-----|-----|
| 1  | 8-14-03 | U            | REVISED TO COMPLY WITH DRAFTING MANUAL.<br>ADDED STRAINER & KICKED NOTE 6. REVISED<br>CONTROL VALVE & DWG NO. WAS ST8121. | RP  | AB   | JM   | GG  | TO  |

  

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|--|--|---|-----------|
| <b>Los Alamos</b><br>NATIONAL LABORATORY                       |  | FACILITY & WASTE OPERATIONS<br>DESIGN ENGINEERING CONSTRUCTION SERVICES |           |
| ENGINEERING STANDARDS MANUAL                                   |  | DRAWN   | R.PEARSON |
| HOT WATER COIL PIPING DETAIL<br>ON/OFF FLOW, FAIL TO FULL HEAT |  | DESIGN  | A.BRIDGE  |
| BLDG X   |  | CHECKED   | G.GREWAL  |
| SUBMITTED  |  | DATE  | 6-28-01   |
| DISCIPLINE POC: GURINDER GREWAL                                |  | APPROVED FOR RELEASE  | TA-X      |
| REVIEWER LARRY BAYS  |  | STANDARDS MANAGER: TOBIN ORUCH  |           |
| CLASSIFICATION U   |  | SHEET   |           |
| PROJECT ID   |  | 8 OF 11   |           |
| DRAWING NO   |  | DATE  |           |
| CHAPTER 6  |  | ST-D30GEN-2   |           |
| REV  |  | 1   |           |